

## ABSTRACT

**METHOD OF SELECTING SEEDS FOR THE CLUSTERING OF  
KEY-FRAMES**

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The method is characterized in that it implements the following steps :

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- random drawing of  $p$  candidates from the set of key images,
- calculation of a cost  $C$  for each candidate,
- selection of the candidate ( $k_1$ ) minimizing the cost  $C$ ,
- determination of a subset ( $I_k$ ) from among the set of key images

such that the key images forming the said subset have a distance from the candidate less than a threshold  $T$ ,

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- determination of a seed ( $k_2$ ) from among the key images of the subset ( $I_k$ ) such that it minimizes the cost function  $C$  for this subset,

- deletion of the key images of the subset ( $I_k$ ) to form a new set of key images for at least one new random draw and determination of a new seed according to the previous 5 steps.

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The field is that of the selection of shots of interest in a video sequence.

Fig. 2.